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List of Publications

List of Publications (2021)

D. Akazawa, T. Sasaki, M. Nagasaka and M. Shiga

“X-ray Absorption Spectra of Aqueous Cellobiose: Experiment and Theory”, J. Chem. Phys., **156** (2022) 044202.

K. Ali, H. Zen, H. Ohgaki, T. Kii, T. Hayakawa, T. Shizuma, H. Toyokawa, M. Fujimoto, Y. Taira and M. Katoh

“Three-Dimensional Nondestructive Isotope-Selective Tomographic Imaging of ^{208}Pb Distribution via Nuclear Resonance Fluorescence”, Applied Sciences, **11** (2021) 3415.

D. Céolin¹, H. Yuzawa, T. Saisopa, K. Klaiphet, J. Borsup, P. Songsiririthigul and N. Kosugi
“Substituent effects in aqueous solutions of carboxylate salts studied by x-ray absorption spectroscopy at the oxygen K-edge”, J. Chem. Phys. **155**, (2021) 014306.

O. Endo, F. Matsui, W. J. Chun, M. Nakamura, K. Amemiya and H. Ozaki

“Nanographene growth from benzene on Pt(111)”, Surf.Sci., **711** (2021) 121874.

G. Germer, T. Ohigashi, H. Yuzawa, N. Kosugi, R. Flesch, F. Rancan, A. Vogt and E. Rühl

“Improved Skin Permeability after Topical Treatment with Serine Protease: Probing the Penetration of Rapamycin by Scanning Transmission Xray Microscopy”, ACS Omega, **6** (2021) 12213.

K. Hagiwara, M. Ishikado, M. Horio, K. Koshiishi, S. Nakata, S. Ideta, K. Tanaka, K. Horiba, K. Ono, H. Kumigashira, T. Yoshida, S. Ishida, H. Eisaki, S. Shamoto and A. Fujimori

“Superconducting Gap and Pseudogap in the Surface States of the Iron-based Superconductor $\text{PrFeAsO}_1\text{-y}$ Studied by Angle-resolved Photoemission Spectroscopy”, Phys. Rev. Research **3**, (2021) 043151.

Y. Hikosaka

“Multi-Electron–Ion Coincidence Spectrometer with a High-Efficiency Microchannel Plate Detector”, J. Electron Spectrosc. Relat. Phenom., **255** (2022) 147158.

Y. Hikosaka, T. Kaneyasu, M. Fujimoto, H. Iwayama and M. Katoh

“Reply to ‘Comment on ‘Coherent Control in the Extreme Ultraviolet and Attosecond Regime by Synchrotron Radiation’”, Nature Commun., **12** (2021) 3782.

T. Hirai, T. Kawai, Y. Harada and N. Ohno

“Formation of $\text{Cs}_3\text{Cu}_2\text{I}_5$ Microcrystals in CsI Crystals through the Aggregation of Cu⁺ Ions”, Jpn. J. Appl. Phys. **60** (2021) 075501.

S. Ideta, S. Johnston, T. Yoshida, K. Tanaka, M. Mori, H. Anzai, A. Ino, M. Arita, H. Namatame, M. Taniguchi, S. Ishida, K. Takashima, K. M. Kojima, T. P. Devereaux, S. Uchida and A. Fujimori

“Hybridization of Bogoliubov Quasiparticles between Adjacent CuO₂ Layers in the Triple-Layer Cuprate $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ Studied by Angle-Resolved Photoemission Spectroscopy”, Phys. Rev. Lett. **127** (2021) 217004.

G. Ito, H. Kimura, D. Shiratori, K. Hashimoto, D. Nakauchi, M. Koshimizu, T. Kato, N. Kawaguchi and T. Yanagida

“Evaluation of Photoluminescence and Scintillation Properties of Eu-doped 20CsCl-20BaCl₂-60ZnCl₂ glasses by a melt quenching method”, J. Mater. Sci. Electron. **32** (2021) 8725.

M. Iwasawa, S. Kobayashi, M. Sasaki, Y. Hasegawa, H. Ishii, F. Matsui, S. Kera and Y. Yamada

“Photoemission Tomography of a One-Dimensional Row Structure of a Flat-Lying Picene Multilayer on Ag(110)”, J. Phys. Chem. Lett. (2022) 1512.

T. Kanomata, T. Awano and T. Ito
“Optical Properties of the Antiferromagnetic Heusler Alloy Ru₂CrGe”, Solid State Commun, **340** (2021) 114525.

P. Kantuptim, H. Fukushima, H. Kimura, D. Nakauchi, T. Kato, M. Koshimizu, N. Kawaguchi and T. Yanagida
“VUV- and X-ray-Induced Properties of Lu₂Si₂O₇, Y₂Si₂O₇, and Gd₂Si₂O₇ Single Crystals”, Sensors and Mater. **33** (2021) 2195.

Y. Kebukawa, M. E. Zolensky, C. A. Goodrich, M. Ito, N. O. Ogawa, Y. Takano, N. Ohkouchi, K. Kiryu, M. Igisu, T. Shibuya, M. A. Marcus, T. Ohigashi, J. Martinez, Y. Kodama, M. H. Shaddad and P. Jenniskens
“Organic matter in carbonaceous chondrite lithologies of Almahata Sitta: Incorporation of previously unsampled carbonaceous chondrite lithologies into ureilitic regolith”, Meteoritics & Planetary Science **56**, Nr 7, (2021) 1311.

Y. Kezuka, H. Murata, M. Yoshida, K. Eguchi, A. Nakahira and M. Tajika
“Effects of Trace Si Impurities in Water on the Growth of Calcite Nanoparticles”, CrystEngComm, **24** (2022) 747.

S. Makita, H. Matsuda, Y. Okano, T. Yano, E. Nakamura, Y. Hasegawa, S. Kera, S. Suga and F. Matsui
“Contrast Inversion of Photoelectron Spectro-microscopy Image”, e-J. Surf. Sci. Nanotechnol., **19** (2021) 42.

F. Matsui and H. Matsuda
“Projection-type electron-spectroscopy collimator analyzer for charged particles and X-ray detections”, Rev. Sci. Instrum., **92**, (2021) 073301.

F. Matsui, S. Makita, H. Matsuda, E. Nakamura, Y. Okano, T. Yano, S. Kera and S. Suga
“Valence Band Dispersion Embedded in Resonant Auger Electrons”, J. Phys. Soc. Jpn., **90**, (2021) 124710.

S. Mitsunobu, Y. Ohashi, H. Makita, Y. Suzuki, T. Nozaki, T. Ohigashi, T. Ina and Y. Takaki
“One-Year In Situ Incubation of Pyrite at the Deep Seafloor and Its Microbiological and Biogeochemical Characterizations”, Applied and Environmental Microbiolog, **87** (2021) e00977-21.

M. Nagasaka and N. Kosugi
“Soft X-ray Absorption Spectroscopy for Observing Element-specific Intermolecular Interaction in Solution Chemistry”, Chem. Lett. **50** (2021) 956.

S. Nakata, M. Horio, K. Koshiishi, K. Hagiwara, C. Lin, M. Suzuki, S. Ideta, K. Tanaka, D. Song, Y. Yoshida, H. Eisaki, and A. Fujimori
“Nematicity in a cuprate superconductor revealed by angle-resolved photoemission spectroscopy under uniaxial strain”, npj Quantum Mater. **6** (2021)86

Y. Nakayama, K. Sudo, N. Ohashi, S. Kera and Y. Watanabe
“Interface electronic structure and valence band dispersion of bis(1,2,5-thiadiazolo)-p-quinobis(1,3-dithiole) on polycrystalline Au electrodes”, Electron. Struct. **3** (2021) 024006.

J. Rodriguez, T. Ohigashi, C. Lee, M. Tsai, C. Yang, C. Wang, C. Chen, W. Pong, H. Chiu and C. Chuang
“Modulating chemical composition and work function of suspended reduced graphene oxide membranes through electrochemical reduction”, Carbon **185**, (2021) 410.

E. Salehi and M. Katoh
“Spatial structure and angular momentum of electro-magnetic wave radiated from a relativistic electron moving on a spiral orbit”, J. Adv. Simulat. Sci Eng., **8** (2021) 87.

- H. Suga, K. Suzuki, T. Usui, A. Yamaguchi, O. Sekizawa, K. Nitta, Y. Takeichi, T. Ohigashi and Y. Takahashi
“A New Constraint on the Physicochemical Condition of Mars Surface during the Amazonian Epoch Based on Chemical Speciation for Secondary Minerals in Martian Nakhlites”, Minerals, **11** (2021) 514.
- I. Suzuki, Z. Lin, S. Kawanishi, K. Tanaka, Y. Nose, T. Omata and S. Tanaka
“Direct Evaluation of Hole Effective Mass of SnS–SnSe Solid Solutions with ARPES Measurement”, Phys. Chem. Chem. Phys. **24** (2022) 634.
- S. Tsuru, B. Sharma, M. Nagasaka and C. Hättig
“Solvent Effects in the Ultraviolet and X-ray Absorption Spectra of Pyridazine in Aqueous Solution”, J. Phys. Chem. A, **125** (2021) 7198.
- J. V. V'elez, Y. Chinc, M. Tsaid, O. J. Burtone, R. Wange, S. Hofmann, W. Hsuf, T. Ohigashig, W. Pongd and C. Chuang
“Evidence of synergistic electrocatalysis at a cobalt oxide–graphene interface through nanochemical mapping of scanning transmission X-ray microscopy”, Chinese Journal of Physics **76** (2022) 135.
- H. Wang, J. Chiou, K. Chen, A. R. Shelke, C. Dong, C. Lai, P. Yeh, C. Du, C. Lai, K. Asokan, S. Hsieh, H. Shiu, C. Pao, H. Tsai, J. Yang, J. Wu, T. Ohigashi and W. Pong
“Role of Interfacial Defects in Photoelectrochemical Properties of BiVO₄ Coated on ZnO Nanodendrites: Xray Spectroscopic and Microscopic Investigation”, ACS Appl. Mater. Interfaces **13**, (2021) 41524.
- S. Yamasuso and T. Kawai
“Electronic states and relaxation dynamics of Au— centers in RbCl crystals”, J. Lumin. **236** (2021) 118094.
- M. Yoshida, M. Miyahara, H. Suga, A. Yamaguchi, N. Tomioka, T. Sakai, H. Ohfushi, F. Maeda, I. Ohira, E. Ohtani, S. Kamada, T. Ohigashi, Y. Inagaki, Y. Kodama and N. Hirao
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